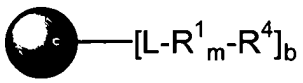
In the claims:

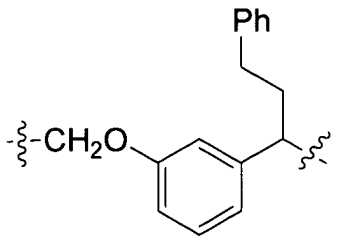
1. (Original) A process for the preparation of a compound of the formula I:



I

wherein

 is an insoluble solid support selected from the group consisting of: poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-CH_2-$, $-C(CH_3)_2-$, $-CH(CH_3)-$, $-(CH_2)_nCH(CN)-$, $-(CH_2)_nCH(CO_2Me)-$, $-(CH_2)_nCH(Ph)-$, $-(CH_2)_nC(CH_3, Ph)-$, $-CH(CH_2CH_2Ph)-$, or



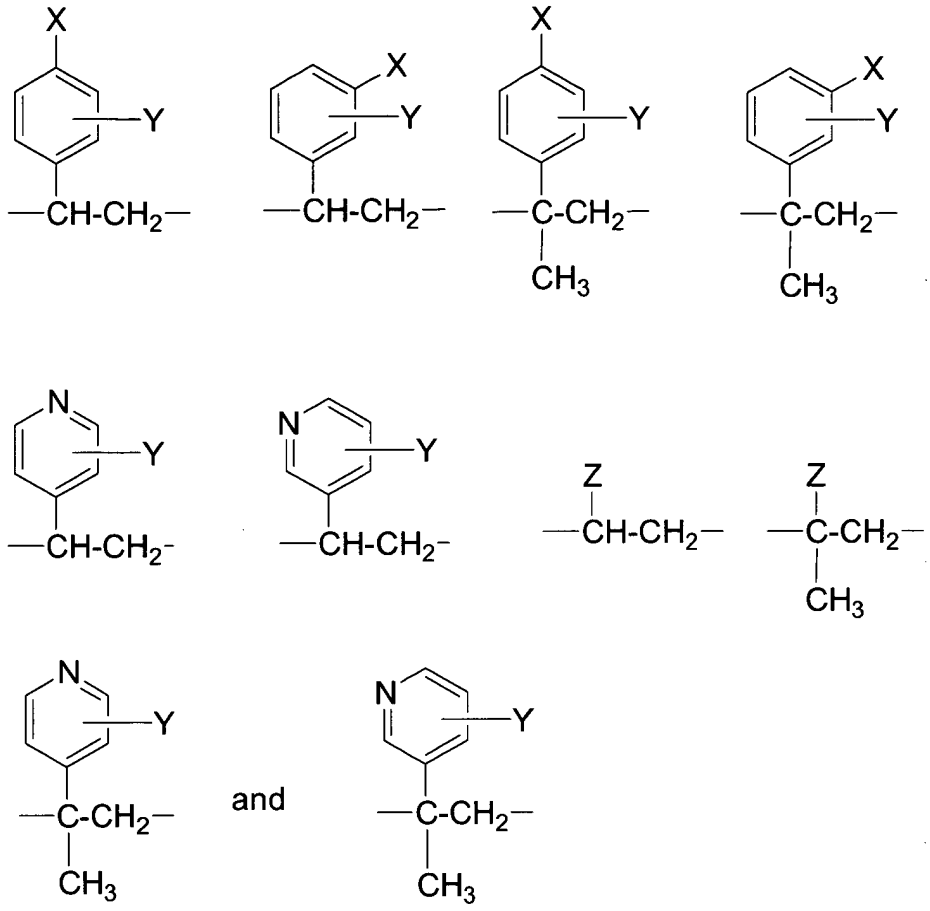
,

n is zero or an integer from 1 to 5;

m is zero or an integer from 1 to 100;

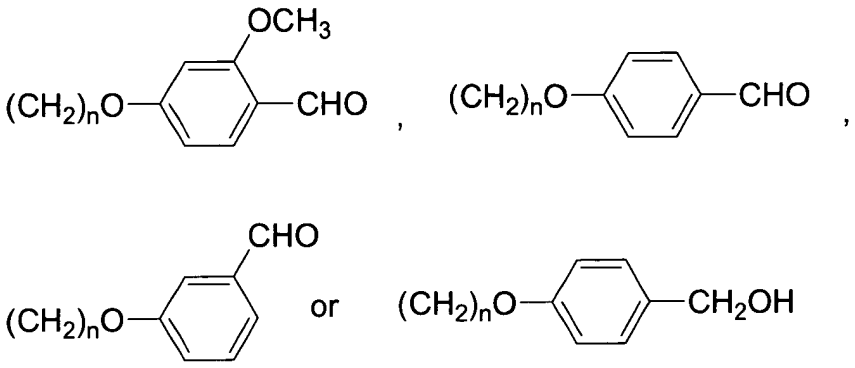
b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;

R^1 is selected from:



wherein

X is H, F, $(CH_2)_nCl$, $(CH_2)_nBr$, $(CH_2)_nI$, $B(OH)_2$, $(CH_2)_nCH=CH_2$, NCO, CH_2NCO, $CH(CH_3)NCO$, $C(CH_3)_2NCO$, CO_2Me, CO_2Et, CO_2 (t-Bu), CO_2H, COC1, $CO_2CH(CF_3)_2$, CO_2Ph, CO_2(pentafluorophenyl), CO_2 (pentachlorophenyl), CO_2 (N-succinimidyl), $C(OMe)_3$, $C(OEt)_3$, $(CH_2)_nOH$, $(CH_2)_nCH(OH)CH_20H$, $(CH_2)_nSH$, $CH_2NHCH_2CH_2SH$, $(CH_2)_nNHC(=S)NH_2$, $(CH_2)_nNH_2$, $(CH_2)_nN(Me)_2$, $(CH_2)_nN(Et)_2$, $(CH_2)_n$ $(iPr)_2$, $CH(CH_3)NH_2$, $C(CH_3)_2NH_2$, $CH_2NHCH_2CH_2NH_2$, $CH_2NHCH_2CH_2NHCH_2CH_2NH_2$, $CH_2N(CH_2CH_2NH_2)_2$, $CH_2NHCH_2CH_2N(CH_2CH_2NH_2)_2$, $CH_2N(CH_2CH_20H)_2$, $(CH_2)_n$(morpholin-4-yl), $(CH_2)_n$(piperidin-1-yl), $(CH_2)_n$(4-methypiperazin-1 -yl), $N(SO_2CF_3)_2$, $(CH_2)_nCHO$, $(CH_2)_nSi(Me)_2H$, $(CH_2)_nSi(Et)_2H$, (CH_2) $Si(iPr)_2H$, $(CH_2)_nSi(tBu)_2H$, $(CH_2)_nSi(Ph)_2H$, $(CH_2)_nSi(Ph)(tBu)H$, $(CH_2)_nSi(Me)_2C1$, $(CH_2)_nSi(Et)_2Cl$, $(CH_2)_nSi(i\text{-}Pr)_2Cl$, $(CH_2)_nSi(tBu)_2Cl$, $(CH_2)_nSi(Ph)_2Cl$, $(CH_2)_nSi(tBu)(Ph)Cl$, $P(Ph)_2$, $P(o\text{-}tolyl)_2$,

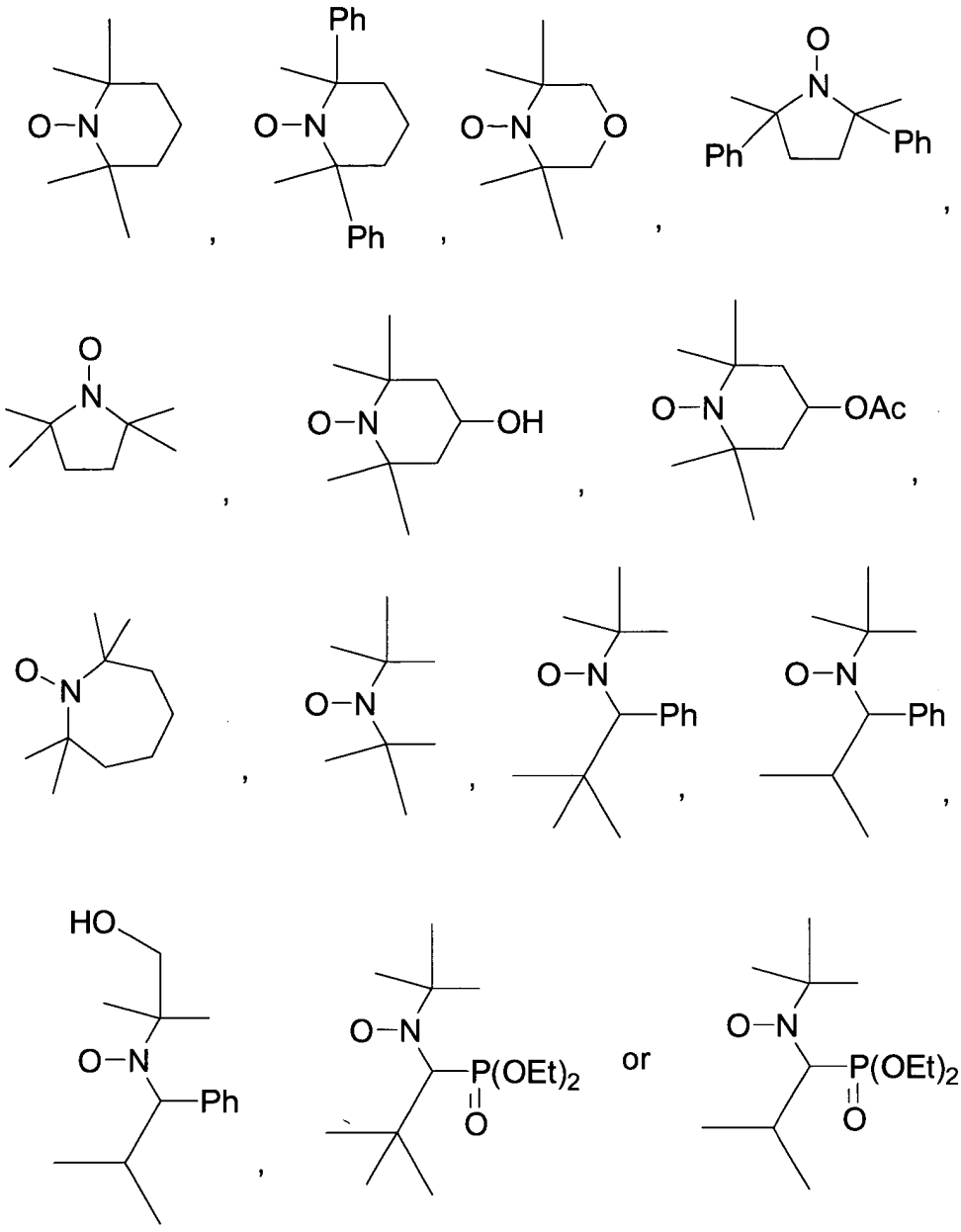


wherein n is zero or an integer from 1 to 5 ;

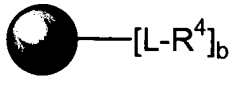
Y is H, C1, Br, F, OH, or OMe;

Z is NCO, CO_2Me, CO_2Et, CO_2(i-Pr), CO_2(n-Bu), CO_2(t-Bu), CN, CO_2H, COC1, $CO_2CH(CF_3)_2$, $C0_2$ (pentafluorophenyl), CO_2(pentachlorophenyl), CO_2Ph, CO_2(N—succinimidyl), $C(OMe)_3$, $C(OEt)_2$, $CON(OCH_3)CH_3$, CHO, CH_2OH, or $C(CH_3)_2OH$; and

R^4 is

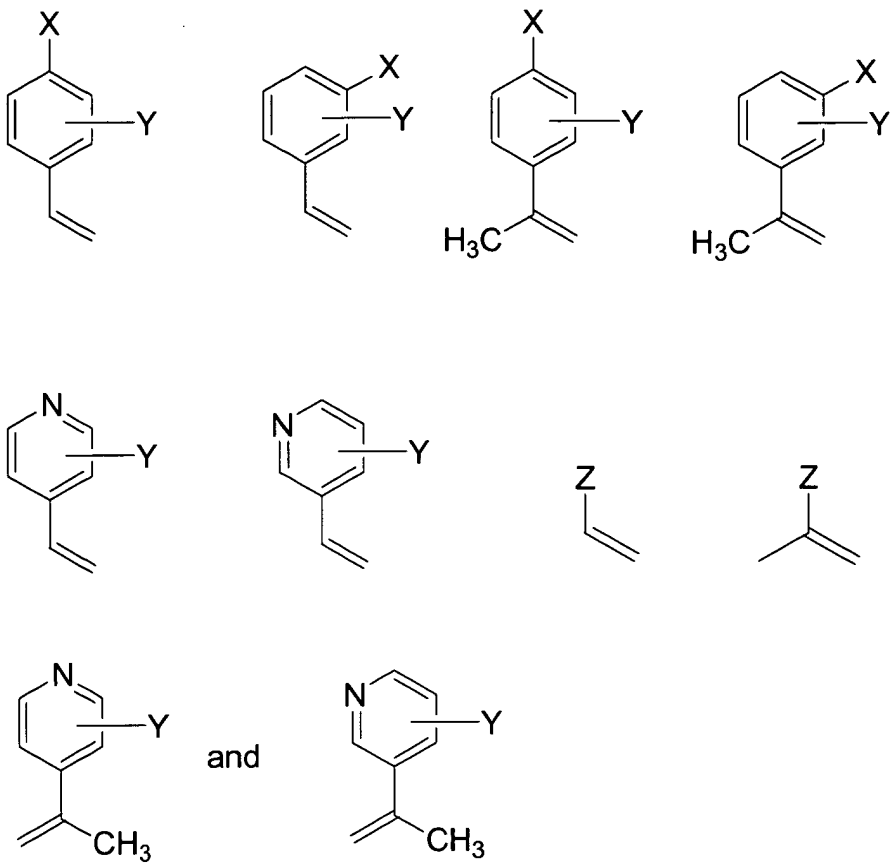


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

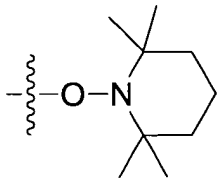


II

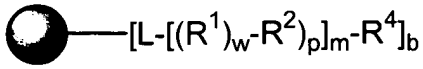
and a compound III selected from:



2. (Original) The process according to Claim 1 wherein R^4 is



3. (Original) A process for the preparation of a compound of the formula IV:

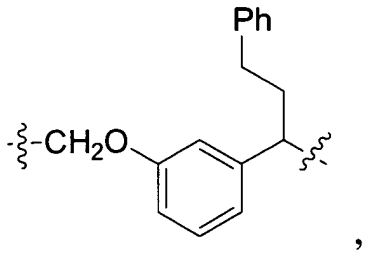


IV

wherein

 is an insoluble solid support selected from the group consisting of:

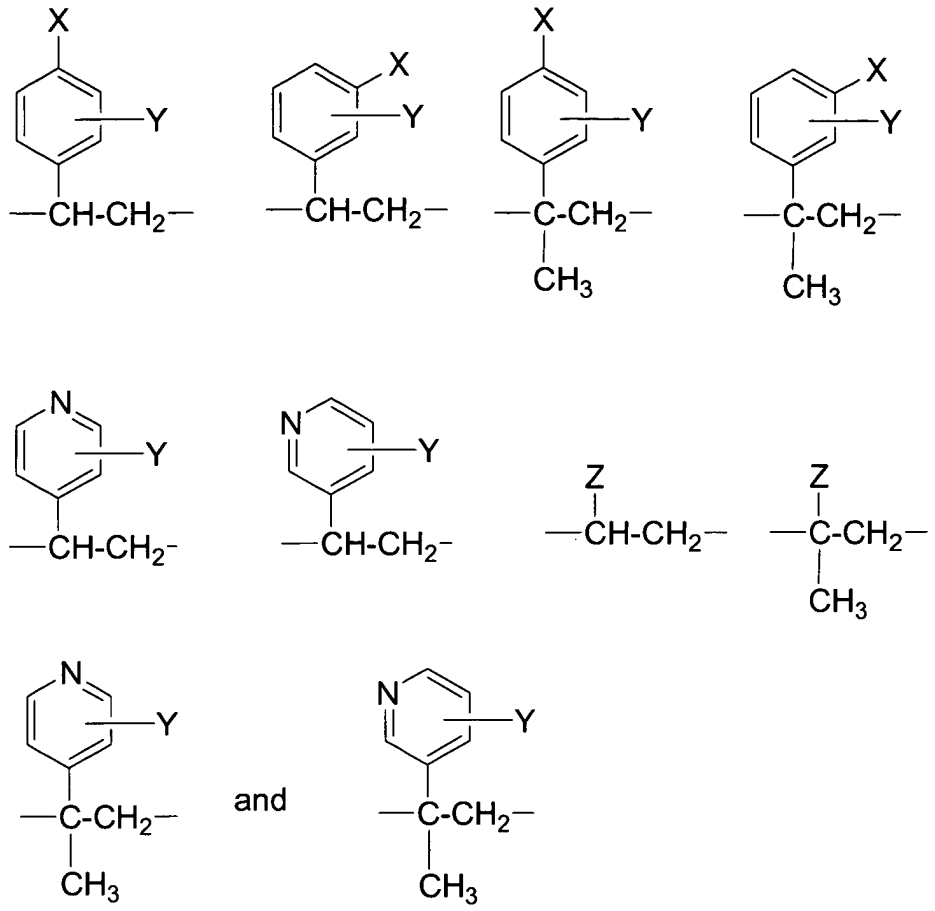
poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly
(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-CH_2-$, $-C(CH_3)_2-$, $-CH(CH_3)-$, $-(CH_2)_nCH(CN)-$, $-(CH_2)_nCH(CO_2Me)-$, $-(CH_2)_nCH(Ph)-$, $-(CH_2)_nC(CH_3, Ph)-$, $-CH(CH_2CH_2Ph)-$, or



,

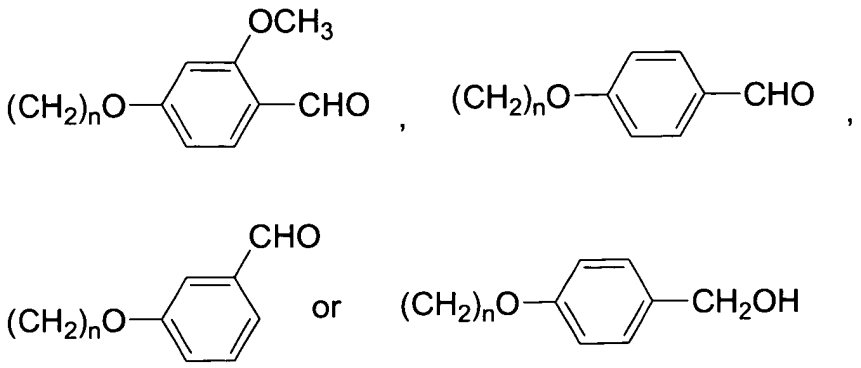
n is zero or an integer from 1 to 5;
m is zero or an integer from 1 to 100;
w is an integer from 1 to 10;
p is zero or an integer from 1 to 10;

b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;
R^1 and R^2 are each independently the same or different and are selected from



wherein

X is H, F, $(CH_2)_nCl$, $(CH_2)_nBr$, $(CH_2)_nI$, $B(OH)_2$, $(CH_2)_nCH=CH_2$, NCO, CH_2NCO, $CH(CH_3)NCO$, $C(CH_3)_2NCO$, CO_2Me, CO_2Et, $CO_2(t\text{-}Bu)$, CO_2H, COC1, $CO_2CH(CF_3)_2$, CO_2Ph, CO_2(pentafluorophenyl), CO_2(pentachlorophenyl), CO_2(N-succinimidyl), $C(OMe)_3$, $C(OEt)_3$, $(CH_2)_nOH$, $(CH_2)_nCH(OH)CH_20H$, $(CH_2)_nSH$, $CH_2NHCH_2CH_2SH$, $(CH_2)_nNHC(=S)NH_2$, $(CH_2)_nNH_2$, $(CH_2)_nN(Me)_2$, $(CH_2)_nN(Et)_2$, $(CH_2)_n(iPr)_2$, $CH(CH_3)NH_2$, $C(CH_3)_2NH_2$, $CH_2NHCH_2CH_2NH_2$, $CH_2NHCH_2CH_2NHCH_2CH_2NH_2$, $CH_2N(CH_2CH_2NH_2)_2$, $CH_2NHCH_2CH_2N(CH_2CH_2NH_2)_2$, $CH_2N(CH_2CH_20H)_2$, $(CH_2)_n$(morpholin-4-yl), $(CH_2)_n$(piperidin-1-yl), $(CH_2)_n$(4-methypiperazin-1-yl), $N(S0_2CF3)_2$, $(CH_2)_nCHO$, $(CH_2)_nSi(Me)_2H$, $(CH_2)_nSi(Et)_2H$, $(CH_2)Si(iPr)_2H$, $(CH_2)_nSi(tBu)_2H$, $(CH_2)_nSi(Ph)_2H$, $(CH_2)_nSi(Ph)(tBu)H$, $(CH_2)_nSi(Me)_2C1$, $(CH_2)_nSi(Et)_2Cl$, $(CH_2)_nSi(i\text{-}Pr)_2Cl$, $(CH_2)_nSi(tBu)_2Cl$, $(CH_2)_nSi(Ph)_2Cl$, $(CH_2)_nSi(tBu)(Ph)Cl$, $P(Ph)_2$, $P(o\text{-}tolyl)_2$,

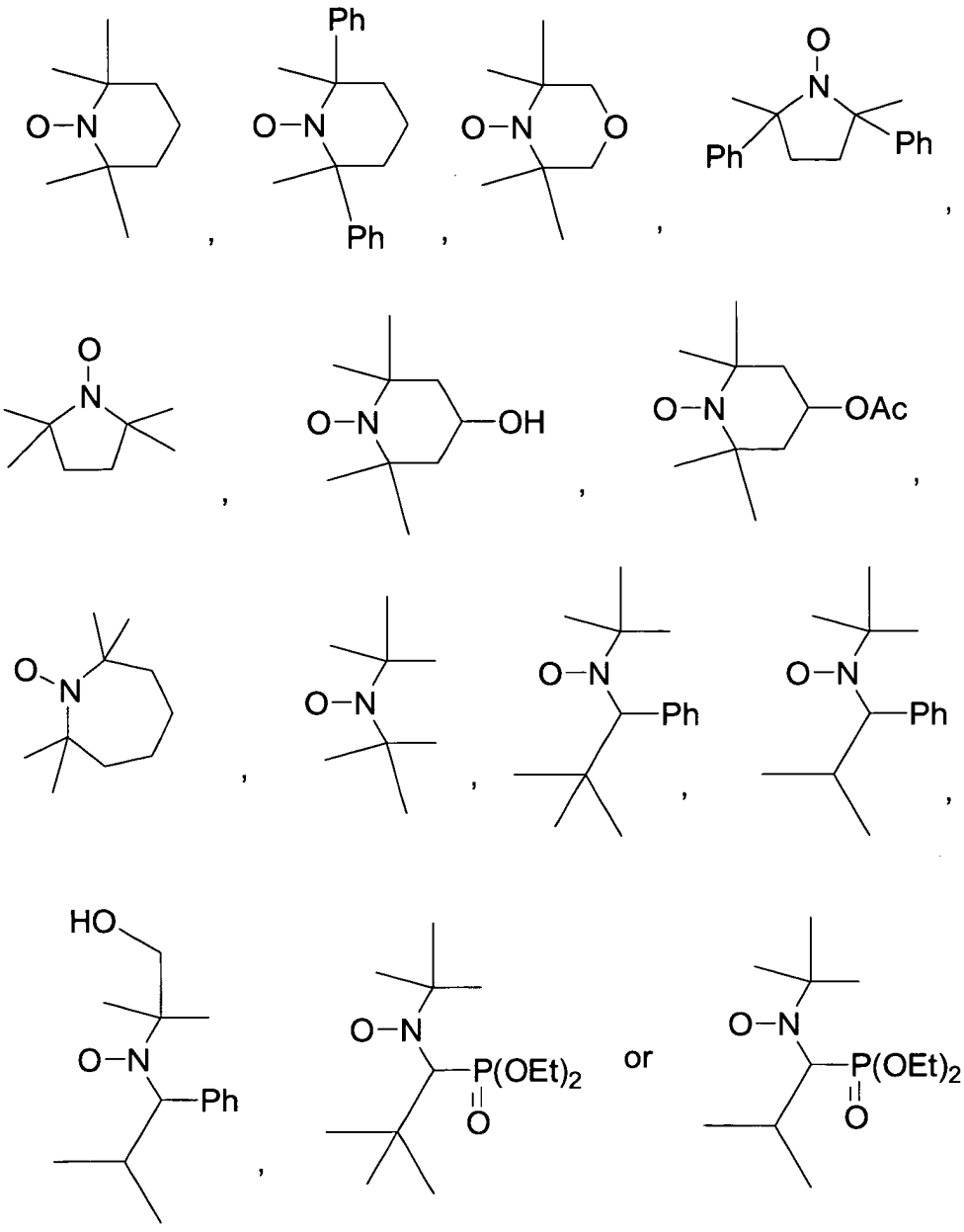


wherein n is zero or an integer from 1 to 5;

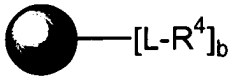
Y is H, Cl, Br, F, OH, or OMe;

Z is NCO, CO_2Me, CO_2Et, CO_2 (i-Pr), CO_2(n-Bu), CO_2(t-Bu), CN, CO_2H, COCl, $CO_2CH(CF_3)_2$, CO_2(pentafluorophenyl), CO_2(pentachlorophenyl), CO_2Ph, CO_2(N-succinimidyl), $C(OMe)_3$, $C(OEt)_2$, $CON(OCH_3)CH_3$, CHO, CH_2OH, or $C(CH_3)_2OH$; and

R^4 is

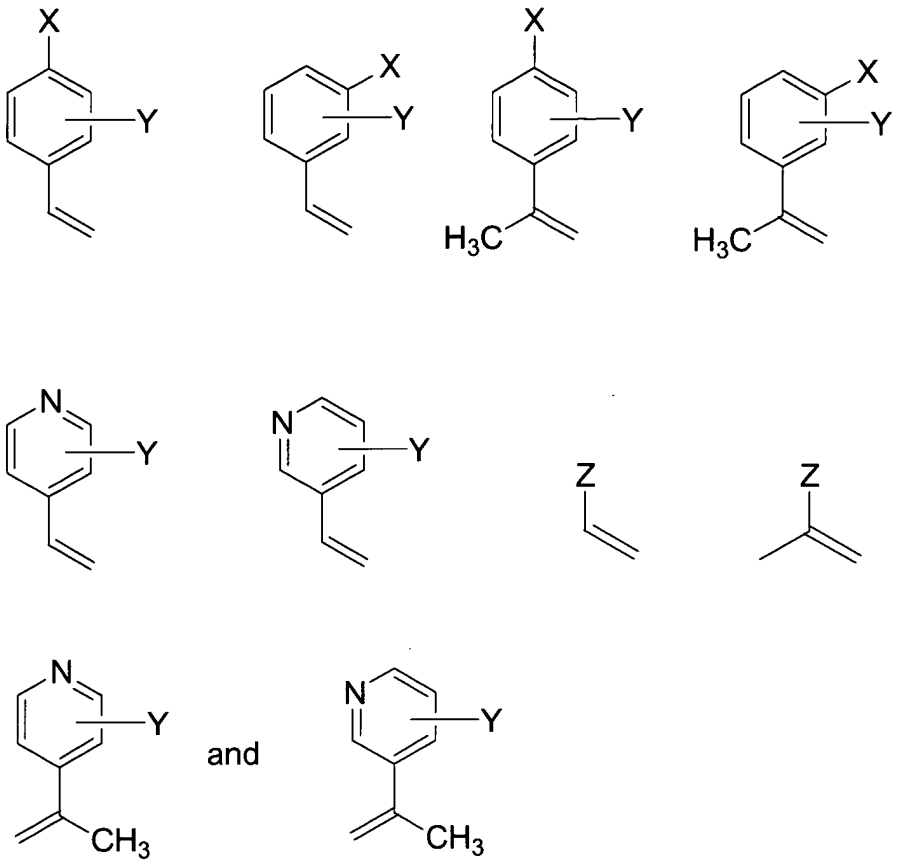


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

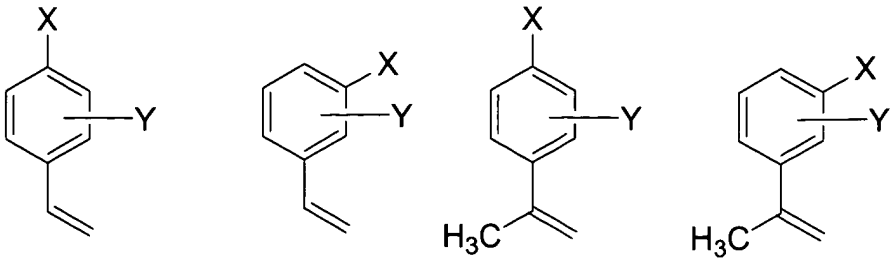


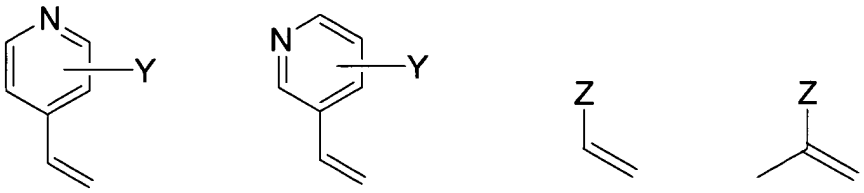
II ,

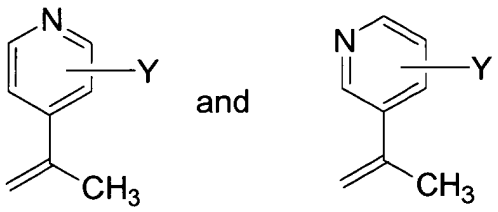
a compound III selected from:



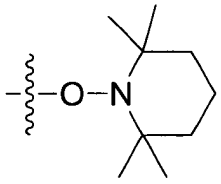
and a compound V selected from:



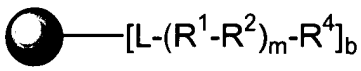




4. (Original) The process according to Claim 3 wherein R^4 is



5. (Original) A process for the preparation of a compound of the formula VI:

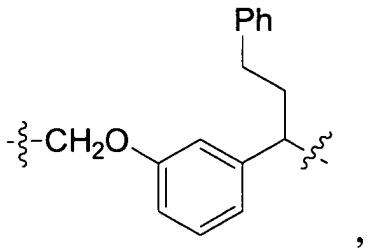


VI

wherein

 is an insoluble solid support selected from the group consisting of:

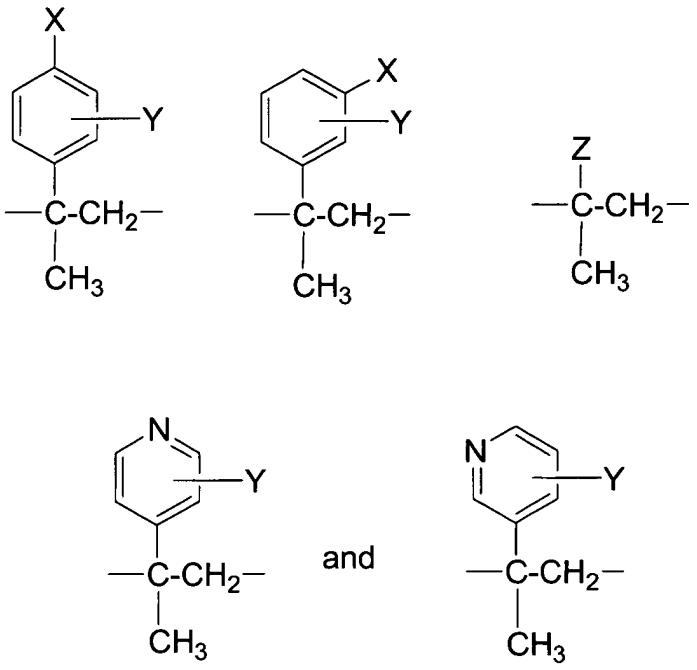
poly(styrene-divinylbenzene), macroreticular poly(styrene-divinylbenzene), polystyrene which is radiation grafted to polypropylene, polystyrene which is radiation grafted to polyethylene, polystyrene which is radiation grafted to poly(tetrafluoroethylene), and polystyrene which is radiation grafted to poly(ethylene-tetrafluoroethylene) wherein the insoluble solid support is in a shape selected from a bead, a tube, a rod, a ring, a disk, or a well; L is $-CH_2-$, $-C(CH_3)_2-$, $-CH(CH_3)-$, $-(CH_2)_nCH(CN)-$, $-(CH_2)_nCH(C0_2Me)-$, $-(CH_2)_nCH(Ph)-$, $-(CH_2)_nC(CH_3, Ph)-$, $-CH(CH_2CH_2Ph)-$, or



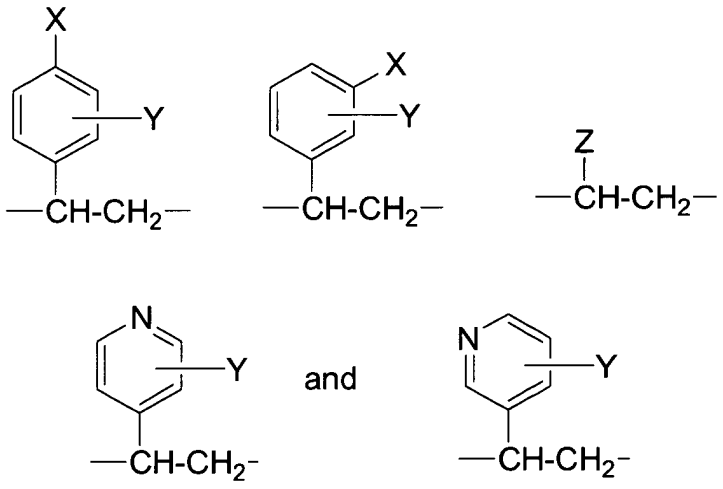
,

n is zero or an integer from 1 to 5;
m is zero or an integer from 1 to 100;
w is an integer from 1 to 10;
p is zero or an integer from 1 to 10;

b is mMol content of initiator or solid-supported polymer per gram of insoluble solid support and is about 0.1 to about 5.0 mMol per gram;
R^1 is selected from



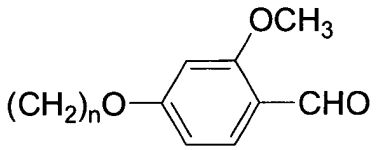
R^2 is selected from

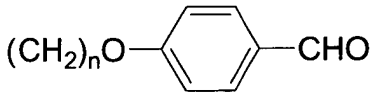


wherein

X is H, F, $(CH_2)_nCl$, $(CH_2)_nBr$, $(CH_2)_nI$, $B(OH)_2$, $(CH_2)_nCH=CH_2$, NCO, CH_2NCO, $CH(CH_3)NCO$, $C(CH_3)_2NCO$, CO_2Me, CO_2Et, $CO_2(t\text{-}Bu)$, CO_2H, COCl, $CO_2CH(CF_3)_2$, CO_2Ph, CO_2(pentafluorophenyl), CO_2(pentachlorophenyl), CO_2(N-succinimidyl), $C(OMe)_3$, $C(OEt)_3$, $(CH_2)_nOH$, $(CH_2)_nCH(OH)CH_2OH$, $(CH_2)_nSH$, $CH_2NHCH_2CH_2SH$, $(CH_2)_nNHC(=S)NH_2$, $(CH_2)_nNH_2$, $(CH_2)_nN(Me)_2$, $(CH_2)_nN(Et)_2$, $(CH_2)_n(iPr)_2$, $CH(CH_3)NH_2$, $C(CH_3)_2NH_2$, $CH_2NHCH_2CH_2NH_2$, $CH_2NHCH_2CH_2NHCH_2CH_2NH_2$,

$CH_2N(CH_2CH_2NH_2)_2$, $CH_2NHCH_2CH_2N(CH_2CH_2NH_2)_2$, $CH_2N(CH_2CH_20H)_2$, $(CH_2)_n$(morpholin-4-yl), $(CH_2)_n$(piperidin-1-yl), $(CH_2)_n$(4-methypiperazin-1-yl), $N(S0_2CF3)_2$, $(CH_2)_nCHO$, $(CH_2)_nSi(Me)_2H$, $(CH_2)_nSi(Et)_2H$, $(CH_2)Si(iPr)_2H$, $(CH_2)_nSi(tBu)_2H$, $(CH_2)_nSi(Ph)_2H$, $(CH_2)_nSi(Ph)(tBu)H$, $(CH_2)_nSi(Me)_2C1$, $(CH_2)_nSi(Et)_2Cl$, $(CH_2)_nSi(i\text{-}Pr)_2Cl$, $(CH_2)_nSi(tBu)_2Cl$, $(CH_2)_nSi(Ph)_2Cl$, $(CH_2)_nSi(tBu)(Ph)Cl$, $P(Ph)_2$, $P(o\text{-}tolyl)_2$,



,


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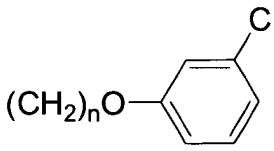
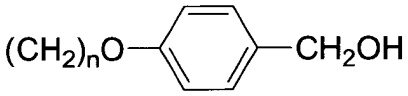


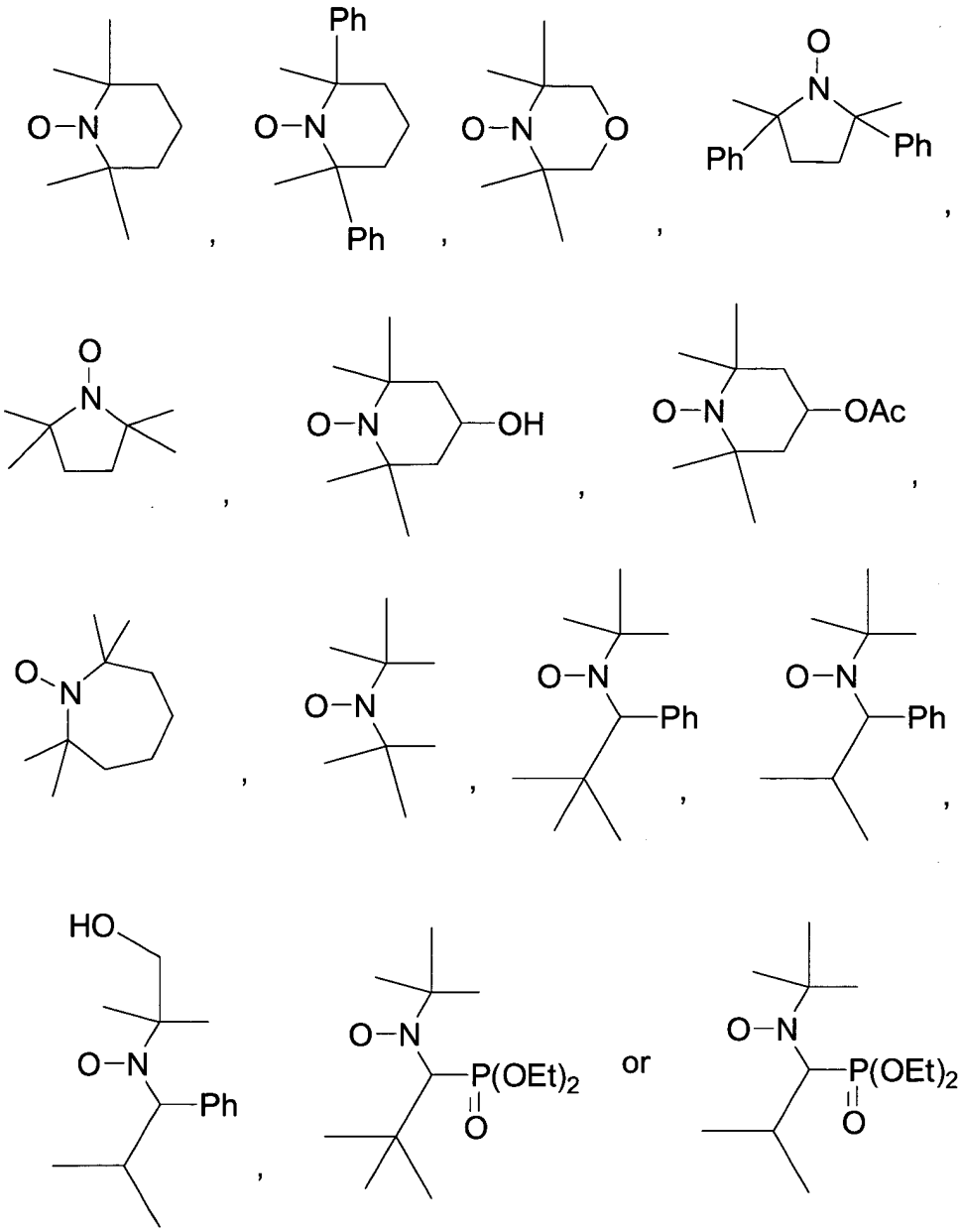
or


wherein n is zero or an integer from 1 to 5;

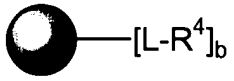
Y is H, C1, Br, F, OH, or OMe;

Z is NCO, CO_2Me, CO_2Et, CO_2 (i-Pr), CO_2(n-Bu), CO_2(t-Bu), CN, CO_2H, COC1, $CO_2CH(CF_3)_2$, CO_2(pentafluorophenyl), CO_2(pentachlorophenyl), CO_2Ph, CO_2(N-succinimidyl), $C(OMe)_3$, $C(OEt)_2$, $CON(OCH_3)CH_3$, CHO, CH_2OH, or $C(CH_3)_2OH$; and

R^4 is

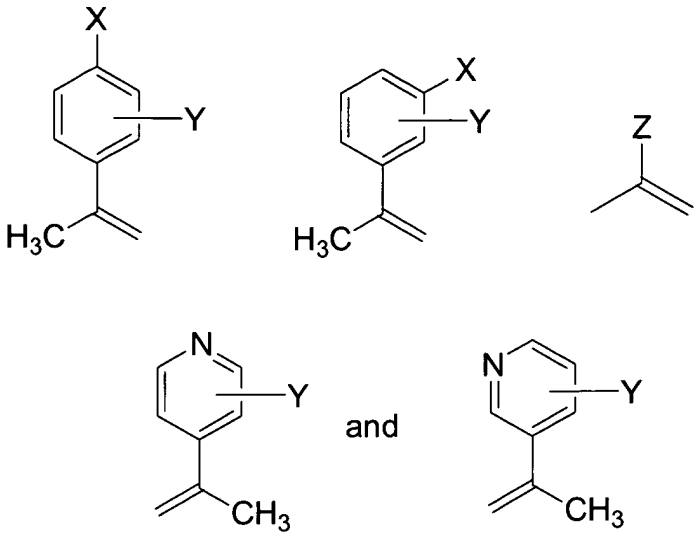


which comprises the step of microwave irradiating a mixture comprising a compound of the formula II

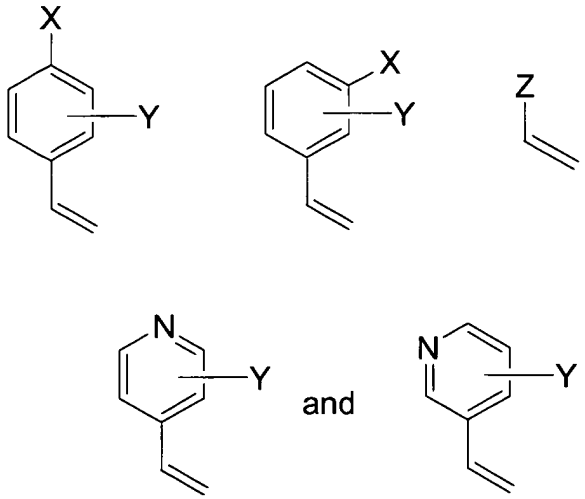


II ,

a compound VII selected from:

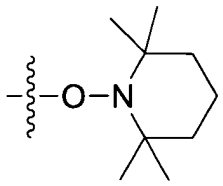


and a compound VIII selected from:



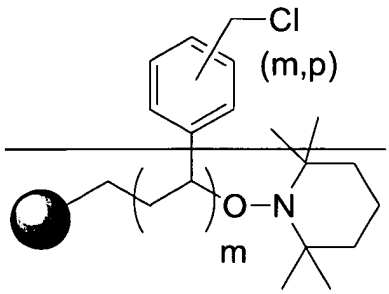
wherein the ratio of the compound VII and the compound VIII is about 2:1.

6. (Original) The process according to Claim 5 wherein R^4 is

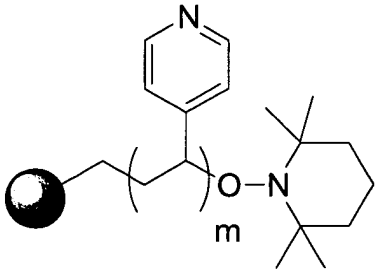


7. (cancelled)

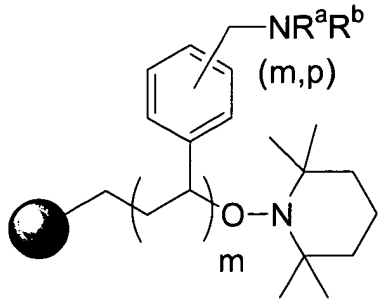
8. (Currently amended) A compound which is selected from:



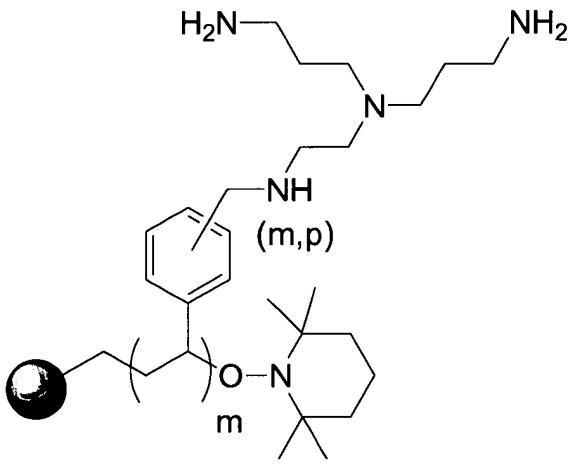
~~wherein~~  ~~is a polystyrene resin, m is from 1 to 100 and the chlorine content is from about 5 to about 7 mmol/gram of resin;~~



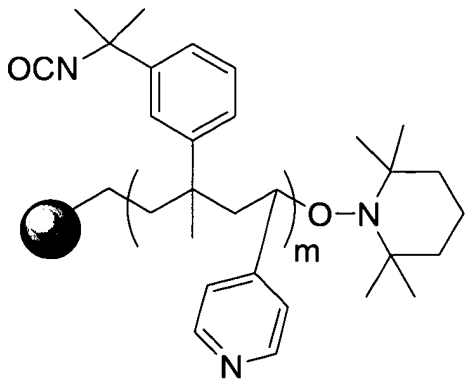
wherein  is a polystyrene resin, m is from 1 to 100 and the pyridyl content is from about 5 to about 7 mmol/gram of resin;



wherein  is a polystyrene resin, m is from 1 to 100, $-NR^aR^b$ is selected from diethylamino, diisopropylamino, piperidinyl, morpholino and piperazinyl and the amine content is from about 4 to about 7 mmol/gram of resin;

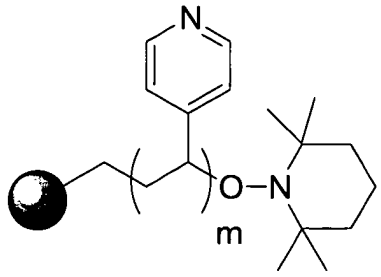


wherein  is a polystyrene resin, m is from 1 to 100, and the amine content is from about 3 to about 6 mmol/gram of resin; and



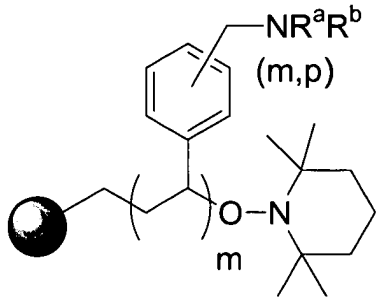
wherein  is a polystyrene resin, m is from 1 to 100, and the isocyanate content is from about 1 to about 4 mmol/gram of resin.

9. (previously presented) The compound according to Claim ~~13~~ 8 which is



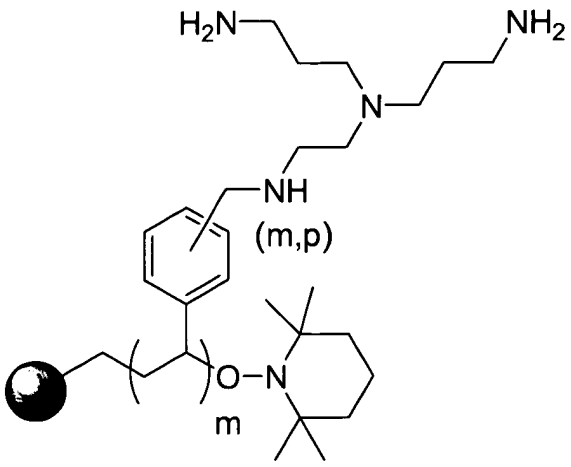
wherein  is a polystyrene resin, m is from 1 to 100 and the pyridyl content is from about 5 to about 7 mmol/gram of resin.

10. (previously presented) The compound according to Claim ~~13~~ 8 which is



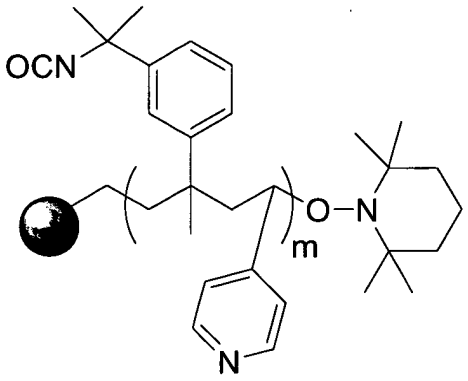
wherein  is a polystyrene resin, m is from 1 to 100, $-NR^aR^b$ is selected from diethylamino, diisopropylamino, piperidinyl, morpholino and piperazinyl and the amine content is from about 4 to about 7 mmol/gram of resin.

11. (previously presented) The compound according to Claim ~~13~~ 8 which is



wherein ● is a polystyrene resin, m is from 1 to 100, and the amine content is from about 3 to about 6 mmol/gram of resin.

12. (previously presented) The compound according to Claim ~~13~~ 8 which is



wherein ● is a polystyrene resin, m is from 1 to 100, and the isocyanate content is from about 1 to about 4 mmol/gram of resin.

13. (cancelled)

14. (cancelled)